

SEQUENCE LISTING

<110> SUGIYAMA, Hiroshi
BANDO, Toshikazu

<120> Novel Indole Derivative For Alkylating Specific Base Sequence
Of DNA And Alkylating Agent And Drug Containing The Derivative

<130> Q96589

<140> US 10/598,789
<141> 2006-09-12

<150> JP 2004-114793
<151> 2004-03-13

<150> PCT/JP05/04250
<151> 2005-03-10

<160> 19

<170> PatentIn

<210> 1
<211> 450
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic construct

<400> 1

agaatcaggg	gataacgcag	gaaagaacat	gtgagcaaaa	ggccagcaaa	aggccaggaa	60
ccgtaaaaag	gccgcgttgc	tggcgttttt	ccataggctc	cgccccctg	acgagcatca	120
caaaaatcga	cgctcaagtc	agaggtggcg	aaacccgaca	ggactataaa	gataccaggc	180
gtttccccct	ggaagctccc	tcgtgcgctc	tcctgtttccg	accctgccgc	ttaccggata	240
cctgtccgcc	tttctccctt	cggaagcggt	ggcgctttct	caatgctcac	gctgtaggta	300
tctcagttcg	gtgtaggctc	ttcgttccaa	gctgggctgt	gtgcacgaac	cccccgttca	360
gcccgaaccgc	tgcgccttat	ccggttaacta	tcgtcttgag	tccaacccgg	taagacacga	420
cttatcgcca	ctggcagcag	ccactggtaa				450

<210> 2
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic construct

<400> 2

agaatcaggg	gataacgcag	20
------------	------------	----

<210> 3
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic construct

<400> 3

ttaccagtgg ctgctgccag

20

<210> 4

<211> 450

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic construct

<400> 4

tgctggcctt	ttgctcacat	gttctttcct	gcgttatccc	ctgattctgt	ggataaccgt	60
attaccgcct	ttgagtgagc	tgataccgct	cgccgcagcc	gaacgaccga	gcgcagcgag	120
tcagtgagcg	aggaagcgga	agagcgccca	atacgcaaac	cgcctctccc	cgcgcgttgg	180
ccgattcatt	aatgcagctg	gcacgacagg	tttcccgaact	ggaaagcggg	cagtgagcgc	240
aacgcaatta	atgtgagtta	gtcactcat	taggcacccc	aggctttaca	ctttatgctt	300
ccggctcgtg	tggtgtgtgg	aattgtgagc	ggataacaat	ttcacacagg	aaacagctat	360
gaccatgatt	acgaattcga	gctcgggtacc	cggggatcct	ctagagtcga	cctgcaggca	420
tgcaagcttg	gcactggccg	tcgttttaca				450

<210> 5

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic construct

<400> 5

tgctggcctt ttgctcacat g

21

<210> 6

<211> 19

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic construct

<400> 6

tgtaaaacga cggccagtg

19

<210> 7

<211> 450

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic construct

<400> 7

tgtaaaacga	cggccagtgc	caagcttgca	tgccctgcagg	tcgactctag	aggatccccg	60
ggtaccgagc	tcgaattcgt	aatcatgggc	atagctgttt	cctgtgtgaa	attgttatcc	120
gctcacaatt	ccacacaaca	tacgagccgg	aagcataaag	tgtaaagcct	gggggtgccta	180

(2/6)

atgagtgagc	taactcacat	taattgcggt	gcgctcactg	cccgcctttcc	agtcgggaaa	240
cctgtcgtgc	cagctgcatt	aatgaatcgg	ccaacgcgcg	gggagaggcg	gtttgcgtat	300
tgggcgtctt	tccgcttcct	cgctcactga	ctcgcctgcg	tcggtcgttc	ggctgcggcg	360
agcggtatca	gctcactcaa	aggcggtaat	acggttatcc	acagaatcag	gggataacgc	420
aggaaagaac	atgtgagcaa	aaggccagca				450

<210> 8
 <211> 537
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic construct

<400> 8

atcagggcaa	ctcaaccctg	tccgatttca	acaaaacgct	ggtcctttcc	ggcaatcagg	60
cgggactgac	ggcagatcgt	atgctggtcc	tgtccagagc	cgggcaggcg	gcagggctga	120
cgtttaacca	gaccagcgag	tcactcagcg	cactgggttaa	ggcgggggta	agcggtgagg	180
ctcagattgc	gtccatcagc	cagagtgtgg	cgcgtttctc	ctctgcatcc	ggcgtggagg	240
tggacaaggt	cgctgaagcc	ttcgggaagc	tgaccacaga	cccgcgctcg	gggctgacgg	300
cgatggctcg	ccagttccat	aacgtgtcgg	cggagcagat	tgcgatatgt	gctcagttgc	360
agcgtttccg	cgatgaagcc	ggggcattgc	aggcggcgaa	cgaggccgca	acgaaagggg	420
ttgatgacca	gacccgccgc	ctgaaagaga	acatgggcac	gctggagacc	tgggcagaca	480
ggactgcgcg	ggcattcaaa	tccatgtggg	atgcggtgct	ggatattggt	cgtcctg	537

<210> 9
 <211> 23
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic construct

<400> 9

atcagggcaa	ctcaaccctg	tcc	23
------------	------------	-----	----

<210> 10
 <211> 20
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic construct

<400> 10

caggacgacc	aatatccagc	20
------------	------------	----

<210> 11
 <211> 994
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic construct

<400> 11

ccccaagggg	ttatgctagt	tattgctcag	cggtggcagc	agccaactca	gcttcctttc	60
gggctttgtt	agcagccgga	tcctcagttg	tacagttcat	ccatgccatg	tgtaatccca	120
gcagctgtta	caaactcaag	aaggaccatg	tggctctctt	tttcggtggg	atctttcgaa	180
agggcagatt	gtgtggacag	gtaatggttg	tctggtaaaa	ggacagggcc	atcgccaatt	240
ggagtatttt	gttgataatg	gtctgctagt	tgaacgcttc	catcttcaat	gttgtggcgg	300
gtcttgaagt	tcactttgat	tccattcttt	tgtttgtctg	ccatgatgta	tacattgtgt	360
gagttatagt	tgtattccaa	tttgtgtccc	agaatgttgc	catcttcctt	gaagtcaata	420
ccttttaact	cgattctatt	aacaagggtg	tcaccttcaa	acttgacttc	agcacgtgtc	480
ttgtagttgc	cgtcatcttt	gaagaagatg	gtcctttcct	gtacataacc	ttcgggcatg	540
gcactcttga	aaaagtcatg	ccgtttcata	tgatccgggt	atcttgaaaa	gcattgaaca	600
ccatagcaca	gagtagtgac	tagtgttggc	catggaaacag	gcagtttgcc	agtagtgcag	660
atgaacttca	gggtaagttt	tccgtatggt	gcatcacctt	caccctctcc	actgacagag	720
aacttgtggc	cgttaacatc	accatctaata	tcaacaagaa	ttgggacaac	tccagtgaag	780
agttcttctc	ctttgctagc	catatgtata	tctccttctt	aaagttaaac	aaaattattt	840
ctagagggga	attgttatcc	gctcacaatt	cccctatagt	gagtcgtatt	aatttcgcgg	900
gatcgagatc	tcgatacctt	acgccggacg	catcgtggcc	ggcatcaccg	gcgccacagg	960
tgcggttgct	ggcgcctata	tcgccgacat	cacc			994

<210> 12
 <211> 20
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic construct

<400> 12

ggtgatgtcg gcgatatagg 20

<210> 13
 <211> 20
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic construct

<400> 13

ccccaagggg ttatgctagt 20

<210> 14
 <211> 727
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic construct

<400> 14

cccattctaa	actgtaccct	gttactttatc	cccttcctat	gacatgaact	taatcataga	60
aaagaagggg	aaagaaaaca	tcaagcgtcc	catagactca	ccctgaagtt	ctcaggatcc	120
acgtgcagct	tgtcacagtg	cagctcactc	agtgtggcaa	aggtgccctt	gaggttgtcc	180
aggtgagtta	ggccatcact	aaaggcaccg	agcactttct	tgccatgagc	cttcacctta	240
gggttgccca	taacagcatc	aggagtggac	agatccccaa	aggactcaaa	gaacctctgg	300
gtccaagggg	agaccaccag	cagcctaagg	gtgggaaaaat	agaccaatag	gcagagagag	360
tcagtgccta	tcagaaacct	aagagtcttc	tctgtctcca	catgcccagt	ttctattggg	420
ctccttaaac	ctgtcttgta	accttgatac	caacctgccc	agggcctcac	caccaacttc	480
atccacgttc	accttgcccc	acagggcagt	aacggcagac	ttctcctcag	gagtcagatg	540

caccatggtg	tctgtttgag	gttgctagtg	aacacagttg	tgtcagaagc	aaatgtaagc	600
aagcttcgca	gacagcgatg	cggaagagag	tgaggacgaa	cgcgccccca	ccccctttta	660
tagccccctt	tcaccaacac	ccggtcacgt	ggcctacacc	tataaaccaa	tcaccttcct	720
tgatgcc						727

<210> 15
 <211> 20
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic construct

<400> 15

cccattctaa actgtaccct	20
-----------------------	----

<210> 16
 <211> 21
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic construct

<400> 16

ggcatcaagg aaggtgattg g	21
-------------------------	----

<210> 17
 <211> 446
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic construct

<400> 17

ggccagtga	ttgtaatacg	actcactata	gggcgaattg	ggccctctag	atgcatgctc	60
gagcggccgc	cagtgtgatg	gatatctgca	gaattcggct	tagtcacgac	gttgtaggcc	120
taaccctaac	cctaacccta	accctaacc	taaccctaac	cctaacccta	accctaacc	180
taaccctaac	cctaacccta	accctaacc	taaccctaac	cctaacccta	accctaacc	240
taaccctaac	cctaacccta	accctaacc	gggtcatagc	tgtttcctga	agccgaattc	300
cagcacactg	gcggccggtt	ctagtggatc	cgagctcggt	accaagcttg	gcgtaatcat	360
ggcatagct	gtttcctgtg	tgaaattggt	atccgctcag	aattccacac	aacatacgag	420
ccggaagcat	aaagtgtaaa	gcctgg				446

<210> 18
 <211> 20
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic construct

<400> 18

ggccagtga ttgtaatacg	20
----------------------	----

<210> 19
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic construct

<400> 19

ccaggcttta cactttatgc

20